

# SPECIAL/INDUSTRIAL BUREAU

The Special/Industrial Bureau proudly offers courses to fire and emergency response personnel in the public and private sectors. Courses offered include Technical Rescue, Hazardous Materials, Advanced Firefighting, Water Rescue, and Industrial Emergency Response.

2022 Course changes and Reminders:

- The MS Fire Academy, along with Executive Director Terry Wages has implemented a new policy regarding the Smoke Diver course. All students that plan on attending this course are required to have the Mississippi State Fire Academy Physical Examination Form completed and signed by a Medical Doctor or Doctor of Osteopathy per the NFPA 1582 4.1.4. The form can be found on our website under the forms tab. The Physical Examination form will be valid up to 1 year of the date signed by a Medical Doctor or Doctor of Osteopathy.
- Students planning to attend Rope Rescue Technician (rope level 2), Confined Space Rescue Technician, or Surface & Swiftwater Technician will be required to achieve 70% or greater on a practical skills exam on the first day to continue the course. The skills required will include pre-requisite knowledge from a lower-level course. Examples of skills to be tested; basic rescue knot tying, simple mechanical advantage systems (3:1, 4:1, z-rig) and anchor systems (single & multi point). Surface & Swiftwater will also include the IADRS Annual Waterman ship Test.

Our staff also continues to customize courses for our industrial clients through negotiated contract. These custom courses may incorporate all or part of any program we offer. We recommend that our industrial clients contact us to schedule classes as early as possible, to help ensure staff and facility availability.

The cost of some of our courses is reduced, thanks to grant funds. As always, we must express our appreciation to the Mississippi Emergency Management Agency for their generous support in programs such as Hazardous Materials and Confined Space Rescue. These course fees will now be the responsibility of the student or the sponsoring agency.

The staff of the Special/Industrial Bureau looks forward to meeting your training needs in 2022. If we can be of help, please contact us.

Nick Ragan,  
Instructor Chief

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601-420-1732

## INSTRUCTOR CHIEF NICK RAGAN

# SPECIAL/INDUSTRIAL BUREAU

## FIREGROUND LEADERSHIP

Course Number: SC 611  
Course Hours: 40  
EMS CEU Hours: 4 Approved for EMS CEU by the Mississippi Bureau of Emergency Medical Services.  
Maximum Enrollment: 20 Minimum Enrollment: 10  
Dates of Delivery: January 3-6, 2022 February 7-10, 2022 November 7-10, 2022  
Course Fee: \$360 - Group A \$495 - Group B

Course Description: This course is designed to address the management needs of first-in engine company officers or officials who are responsible for emergency response actions, including the direct supervision of other fire personnel, prior to the arrival of higher-ranking departmental officials. The main focus of the course is to advance the ability of the initial officer in charge of the scene of a fire situation to safely manage the response actions of assigned personnel. The course curriculum includes preparation for response, decision-making, and tactical operations.

NOTE: Student must bring NFPA approved structural firefighting protective clothing. This includes helmet, coat, pants, boots, hood, and gloves. SCBA will be provided.

## FIRE SERVICE MANAGEMENT - 101

Course Number: SC 601  
Course Hours: 40  
EMS CEU Hours: 4 Approved for EMS CEU by the Mississippi Bureau of Emergency Medical Services.  
Maximum Enrollment: 24  
Minimum Enrollment: 16  
Dates of Delivery: August 15-18, 2022  
Course Fee: \$415 - Group A \$550 - Group B

Course Description: This course is designed to assist the personnel currently serving as officers in the public fire service in addressing information not normally found in other Academy courses. Course focuses on the individual fire officer and varied management and supervisory issues. Information presented will assist the fire officer in making informed decisions required for personnel supervision and organizational change. Specifically, participants will be introduced to subjects such as: the legal aspects of providing fire protection, purchasing laws and regulations, equipment management issues, auditing issues, organizational relationship to the Mississippi Rating Bureau, sexual harassment, and conflict resolution.

# INSTRUCTOR CHIEF NICK RAGAN

# SPECIAL/INDUSTRIAL BUREAU

## SMOKE DIVER

Course Number: SC 500  
Course Hours: 40  
EMS CEU Hours: 12 Approved for EMS CEU by the Mississippi Bureau of Emergency Medical Services.  
Maximum Enrollment: 30 Minimum Enrollment: 15  
Course Fee: \$420 - Group A \$555 - Group B  
Dates of Delivery: February 21-24, 2022 October 17-20, 2022  
Prerequisite: Documented Fire Fighter 1001-I-II or Volunteer Certification Level I Training.

Student are required to have the Mississippi State Fire Academy Physical Examination Form completed and signed by a Medical Doctor or Doctor of Osteopathy per the NFPA 1582 4.1.4. (Form can be found on Academy website). Will be valid for one year from date signed by Medical Doctor or Doctor of Osteopathy.

Entity will be billed for entire course fee for registered students who fail to report for class, those who fail physical agility assessment, or withdrawal during the course.

Physical Agility Test: Required and will be administered as the first training activity. Students who fail physical agility test will not be allowed to continue the course.

Course Description: This is a physically demanding, advanced fire fighter course with a focus on fire suppression and structure fire rescue. The course activities are designed to provide realistic fireground working conditions, requiring the student to learn as a team member the limitations of equipment and physical conditioning. Course activities are designed to teach: the limitations of fire fighter personal protective equipment, tactics involving flammable liquid and gas scenarios, structure fire rescue techniques, navigating in fire structures in zero visibility, hose line techniques utilizing 1 3/4" and 2 1/2" attack lines, tactics for interior fire attack, and rappelling while utilizing fire fighter protective equipment. The emphasis of this class is personal fire fighter safety while functioning as a team member, exposing the student to a multitude of scenarios designed to be as realistic as possible.

Other: Students are required to have NFPA full protective clothing, including SCBA and a spare cylinder which meets the NFPA 1981 standard. Students who withdraw from the course must complete another smoke diver course in its entirety to receive certification. The Academy does not furnish student SCBA for this course.

### SMOKE DIVER PHYSICAL AGILITY TEST MINIMUM STANDARDS

1. Mile and one-half run under 12 minutes.
2. Forty-five (45) bent knee sit-ups under 2 minutes. (Candidate's legs shall be bent to approximate 45 degree angle. Feet shall be held in place by a designated assistant. Arms shall be crossed on the chest with hand palms against chest. Crossed forearms shall maintain contact with chest when raising body. Candidate shall raise upper body until crossed forearms make contact with thighs. Shoulder blades shall make contact with ground when body is lowered.)
3. Twenty-five (25) push-ups under 2 minutes without returning to beginning rest position.
4. Seven (7) pull-ups (starting position is palms away, arms fully extended downward with the feet off the ground, pull body up until chin is ABOVE bar, and return to starting position, repetitively, without releasing the bar or touching the ground.)
5. Carry two sections of 2 1/2" hose in a self-locking doughnut roll up and back down four flights of stairs without stopping or falling.

# INSTRUCTOR CHIEF NICK RAGAN

# SPECIAL/INDUSTRIAL BUREAU

## ROPE RESCUE AWARENESS & OPERATIONS (ROPE LEVEL I)

Course Number: SC 530-1 This Course Is Accredited By PROBOARD.  
Course Hours: 40  
EMS CEU Hours: 12 Approved for EMS CEU by the Mississippi Bureau of Emergency Medical Services.  
Maximum Enrollment: 20 Minimum Enrollment: 10  
Course Fee: \$365 - Group A \$505 - Group B  
Dates of Delivery: May 23-26, 2022 June 13-16, 2022 June 27-30, 2022 August 8-11, 2022  
Course Description: This course is an introduction to the subject of high angle rescue. It is designed to build students' confidence in their ability to use modern rope rescue techniques. Throughout the course, emphasis is placed on safety of both the victim and the rescuer. Subjects include basic information on ropes and knots, rigging, simple mechanical advantages, and other related equipment. The primary purpose of this course is to provide students with a safe environment to learn proper techniques in anchor identification, rappelling, gaining access to victims, and in building both individual and team confidence. This course references NFPA 1006 Chapters 5. Students must achieve a 70% or greater on exam and practice skills testing in order to receive a certificate.

Other: Students will not be allowed to use personal rescue equipment during the course (except seat harness which must be approved prior to start of class). Short pants will not be allowed, and hard sole boots are mandatory during field activities. **Students should bring a rescue helmet and gloves to class.**

## RESCUE TECHNICIAN (ROPE LEVEL II)

Course Number: SC 530-2 This Course Is Accredited By PROBOARD.  
Course Hours: 40  
EMS CEU Hours: 12 Approved for EMS CEU by the Mississippi Bureau of Emergency Medical Services.  
Maximum Enrollment: 20 Minimum Enrollment: 10  
Course Fee: \$365 - Group A \$505 - Group B  
Dates of Delivery: July 25-28, 2022 August 22-25, 2022  
Prerequisite: Rope Rescue Awareness & Operations (Rope level I)  
Skills Entrance Test Required  
Course Description: This course reinforces the basics learned and demonstrated in Rope Rescue Awareness & Operations and begins to provide to the student methods to learn advanced high angle rescue techniques. Included in the course are complex anchors, advanced hauling systems, specialized patient packaging and scenarios utilizing high angle facilities at the Academy. Team leader functions are rotated among all participants to facilitate the development of leadership skills during rescue activities. All participants will function as a rescuer, safety, belay, and team leader during scenario-based training activities. This course references NFPA 1006 Chapter 5. **Students Must Pass Entrance Skills On The First Day To Continue In Course.** Students must achieve a 70% or greater on exam and practical skills testing in order to receive a certificate.

Other: Students will not be allowed to use personal rescue equipment during the course (except seat harness which must be approved prior to start of class). Short pants will not be allowed, and hard sole boots are mandatory during field activities. Students should review and bring information acquired during Rope Rescue I to class. **Students should bring a rescue helmet and gloves to class.**

# INSTRUCTOR CHIEF NICK RAGAN

# SPECIAL/INDUSTRIAL BUREAU

## ROPE RESCUE AWARENESS & OPERATIONS-

### FIELD DELIVERY: MODULES 1-4

Maximum Enrollment: 16/group Minimum Enrollment: 12  
EMS CEU Hours: Approved for EMS CEU by the Mississippi Bureau of Emergency Medical Services.  
Course Fee: Call the Special/Industrial Bureau for information.  
Dates of Delivery: May 23-26, 2022 June 27-30, 2022 August 8-11, 2022  
Target Audience: Public emergency response personnel of Mississippi

Course Description: This course was developed to assist local departments in preparing for technical high angle rescue operations. The goal of this program is two-fold: first to standardize high angle rescue information for organizations across the state, and secondly to provide an off-campus training path for organizations to receive state certification as a Rope Rescue Technician-I, normally provided on campus in a 40-hour, week-long class.

**Module: 1** Course Number: SC 530-F1 Course Hours: 12 EMS CEU Hours: 3  
Course Description: The course is constructed to provide awareness level rescue information, complemented with equipment nomenclature and basic skills development

**Module: 2** Course Number: SC 530-F2 Course hours: 12 EMS CEU Hours: 3  
Course Description: The course is constructed to provide operational level rescue information, complemented with necessary skills development toward advancing the individual's ability to perform safely in a high angle rescue environment.

**Module: 3** Course Number: SC 530-F3 Course hours: 8 EMS CEU Hours: 3  
Course Description: The course is constructed to assess team member skill level and advance the individual's ability to perform safely as a team member in the high angle rescue environment after successfully completing Module 1/Module 2.

**Module: 4** Course Number: SC 530-F4 Course hours: 8 EMS CEU Hours: 3  
Course Description: The course is constructed to provide scenario-based training exercises for the demonstration of individual and team skill in providing technical rescue services. This is the fourth and final module toward Rope Rescue Technician-I certification, where individuals demonstrate their ability to perform safely as a team member in a variety of high angle rescue situations.

# INSTRUCTOR CHIEF NICK RAGAN

# SPECIAL/INDUSTRIAL BUREAU

## CONFINED SPACE RESCUE TECHNICIAN

(Awareness, Operations, and Technician levels)

Course Number: SC 532 This Course Is Accredited By PROBOARD.

Course Hours: 40

EMS CEU Hours: 12 Approved for EMS CEU by the Mississippi Bureau of Emergency Medical Services.

Maximum Enrollment: 20 Minimum Enrollment: 10

Course Fee: \$365 - Group A \$505 - Group B

The course fee may be covered by a grant from the Mississippi Emergency Management Agency. Call for information.

Dates of Delivery: February 14-17, 2022 November 14-17, 2022

Prerequisite: Rope Rescue Awareness & Operation and Haz Mat Technician

Skills Entrance Test Required

Course Description: This course is designed to help fire service organizations meet the demands general industry has concerning confined space entry and rescue. General industry has been under pressure to comply with federal regulations established in OSHA's standard Permit-Required Confined Spaces for General Industry, 29 CFR 1910.146. This standard either requires general industry to develop a rescue team within the organization, or to have a written agreement with an outside organization who will respond to the industrial site within specific time frames to perform rescue functions. This course will address lock-out/tag-out, ventilation, air monitoring, protective clothing, rescue equipment, patient packaging, patient removal from confined spaces, and supplied air breathing apparatus. **Students Must Pass Entrance Skills on The First Day to Continue in Course** Students must achieve a 70% or greater on exams at Awareness, Operation and Technician Level as well as practical skills testing to receive a certificate.

Other: Students will not be allowed to use personal rescue equipment during the course (except seat harness which must be approved prior to start of class). Short pants will not be allowed, and hard sole boots are mandatory during field activities. Students should review and bring information acquired during Rope Rescue I to class. **Students should bring a rescue helmet and gloves to class.**

# INSTRUCTOR CHIEF NICK RAGAN

# SPECIAL/INDUSTRIAL BUREAU

## CONFINED SPACE RESCUE

### FIELD DELIVERY: MODULES 1-4

Minimum Enrollment: 12      Maximum Enrollment: 16  
Course Fee: Call the Special/Industrial Bureau for information.  
EMS CEU Hours: Approved for EMS CEU by the Mississippi Bureau of Emergency Medical Services.  
Course Description: This course was developed to assist local departments in preparing for technical rescue situations involving entry into municipal and industrial confined spaces. The goal of this program is two-fold; first to standardize confined space rescue across the state, and secondly, to provide an off-campus training path for organizations to receive state certification in Confined Space Rescue, which is normally provided on-campus in a 40-hour, weeklong class.

Target Audience: Public emergency response personnel of Mississippi

**Module: 1**  
Course Number: SC 532-F1      Course Hours: 12      EMS CEU Hours: 3  
Prerequisite: **Rope Rescue I - Module 4 and Hazardous Materials Technician**  
Course Description: The course is constructed to provide awareness level rescue information, complementing information provided in Rope Rescue - Module 4.

**Module: 2**  
Course Number: SC 532-F2      Course Hours: 12      EMS CEU Hours: 3  
Prerequisite: **Confined Space Rescue - Module 1**  
Course Description: The course is constructed to provide operational level rescue information, complemented with necessary skills development toward advancing the individual's ability to perform safely in confined space rescue situations

**Module: 3**  
Course Number: SC 532-F3      Course Hours: 8      EMS CEU Hours: 3  
Prerequisite: **Confined Space Rescue - Module 2**  
Course Description: The course is constructed to assess team member skill level after successfully completing Module 1 and Module 2. This module advances student toward Confined Space Rescue certification, advancing the individual's ability to perform safely as a team member during confined space rescue operations.

**Module: 4**  
Course Number: SC 532-F4      Course Hours: 8      EMS CEU Hours: 3  
Prerequisite: **Confined Space Rescue - Module 3**  
Course Description: The course is constructed to provide scenario-based training exercises for the demonstration of individual and team skill in providing technical rescue services. This is the fourth and final module toward Confined Space Rescue certification, where individuals demonstrate their ability to perform safely as team members in a variety of confined space rescue situations.

# INSTRUCTOR CHIEF NICK RAGAN

# SPECIAL/INDUSTRIAL BUREAU

## TRENCH RESCUE TECHNICIAN (AWARENESS, OPERATIONS AND TECHNICIAN LEVELS)

Course Number: SC 538 This Course Is Accredited By PROBOARD.  
Course Hours: 40  
Maximum Enrollment: 20  
EMS CEU Hours: 12 This offering has been approved for EMS continuing education credit by the Mississippi Bureau of Emergency Medical Services.  
Course Fee: \$485 - Group A \$625 - Group B  
Dates of Delivery: September 12-15, 2022 September 19-22, 2022  
Prerequisite: **Confined Space Rescue Technician**

Course Description: This course is designed to help rescuers develop the knowledge and skills necessary to conduct basic trench rescues and do emergency shoring in compliance with OSHA 1926.650, NFPA 1006, and 1670 Professional Rescue Standards for Trench Rescue. Students must achieve a 70% or greater on exams at Awareness, Operations and Technician Level, as well as practical skills testing in order to receive a certificate.

Other: Students will not be allowed to use personal rescue equipment during the course. Short pants will not be allowed, and steel toed boots are mandatory during field activities. **Students should bring a rescue helmet and gloves to class.**

## SURFACE WATER & SWIFTWATER RESCUE TECHNICIAN

Course Number: SC 546  
Course Hours: 48  
Maximum Enrollment: 20  
Course Fee: \$485 - Group A \$650 - Group B  
Call for information. The sponsoring department will be responsible for student lodging and meals for the off-campus portions of course.  
Dates of Delivery: May 9-13, 2022  
Prerequisites: Rope Rescue Level 2 (2010 or later MSFA)  
Substitute: Rope Rescue Technician with Highlines NFPA 1006 Compliant  
**Skills Entrance Test Required Surface Water & Swiftwater Rescue Levels 1-2**  
IADRS Annual Watermanship Test: 500 Yard Swim, 15 Minute Tread, 800 Yard Snorkel Swim,  
100 Yard Inert Rescue Tow, Free Dive for 20lb Weight  
Tie: Figure Eight on a Bite, Double Loop Figure Eight, Clove Hitch, Bowline, Prusik Hitch, Munter Hitch w/Tie-Off, Square Knot, Double Fisherman's Knot, Water Knot in Webbing  
Tie/Anchor: Tensionless Anchor, Wrap-3 Pull 2 Anchor  
Rig/Operate: 3:1 Z-Rig Mechanical Advantage System

Course Description: The Surface and Swiftwater Rescue Technician program utilizes the textbook: *Swiftwater Rescue: A Manual for the Rescue Professional* 2nd Ed. The text consists of seventeen chapters and deals with topics ranging from easy rescues to highly technical problems. The course is with 25% lecture and 75% hands-on training. Topics covered include rescue techniques of Reach-Throw-Row/Go-Helo. Students will learn skills and gain confidence in still water, flood water, and Swiftwater environments. Areas covered will include rescue swimming, boat operations, and advanced rope rescue applications. **Students Must Pass Entrance Skills On First Day To Continue In Course.** Students must achieve a 70% or greater on all exams and practical skills assessments in order to receive a certificate.

# INSTRUCTOR CHIEF NICK RAGAN



# SPECIAL/INDUSTRIAL BUREAU

Note: Required PPE: Water Rescue Helmet & PFD, Wet Suit and/or Dry Suit, Water Rescue Boots, Whistle and Gloves, Knife, Mask & Snorkel, Swim Fins (short).  
Recommended Equipment: Water Rescue Throw Bag & Rope, Strobe/Chem Light, Sunscreen, Water Bottle.  
**\*Students responsible for off-campus lodging and meals Wednesday through Friday**

## FIREFIGHTER INTERVENTION RESCUE SURVIVAL TECHNIQUES (FIRST)

Course Number: SC 537  
Course Hours: 40  
Maximum Enrollment: 24  
EMS CEU Hours: 12      Approved for EMS CEU by the Mississippi Bureau of Emergency Medical Services.  
Course Fee: \$365 - Group A      \$505 - Group B  
Dates of Delivery: January 17-20, 2022      March 21-24, 2022      October 31-November 3, 2022  
Prerequisite: **Firefighter 1001-I-II and/or Certified Volunteer Firefighter Level - I**

Course Description: This course is designed to train firefighters in rapid intervention operation and survival techniques. The course will consist of both classroom and practical settings. Firefighters will train in personal escape procedures, rescue of downed firefighter, SCBA use, safety, NFPA 1500 standard and OSHA 29 CFR 1910.104 regulation for rapid intervention teams, and much more. The course is for all firefighters, although it is a physically demanding course due to the time and events using full firefighter protective equipment.

Other: Students are required to have NFPA full protective equipment including SCBA which meets NFPA 1981 standards. SCBA availability will be limited to out of state students.

# INSTRUCTOR CHIEF NICK RAGAN

# SPECIAL/INDUSTRIAL BUREAU

## CERTIFIED ADVANCED RESCUE SPECIALIST (CARS)

Course Number: SC 536  
Course Hours: 40  
EMS CEU Hours: 12      Approved for EMS CEU by the Mississippi Bureau of Emergency Medical Services.  
Maximum Enrollment: 20      Minimum Enrollment: 10  
Course Fee: \$400 - Group A      \$535 - Group B  
Dates of Delivery: June 20-23, 2022  
Prerequisites: 1) Documented emergency medical care training to First Responder level,  
2) Mississippi Smoke Diver,  
3) Rope Rescue-II, and  
4) any three (3) of: - Hazardous Materials Tech-I  
- Confined Space Rescue  
- Dive Rescue Specialist  
- F.I.R.S.T.  
- Trench Rescue  
- Vehicle Extrication & Rescue Technician  
- Swiftwater Rescue Technician  
- Structural Collapse Technician

Course Description: This course is designed to bring together different types of rescue subject matter into one course. It develops through realistic, scenario-based training, team leader decision making necessary to accomplish rescue tactics in a safe manner. Course reinforces information found in earlier course prerequisites and seeks to demonstrate how the application of this information can be modified and applied to solve various rescue situations. Course includes topographical map reading, compasses and their use, and overland rescue techniques, to complement other subject matter from disciplines such as structural firefighting, hazardous materials, rope and confined space rescue.

Other: The class is for individuals who can swim, have no fear of heights, are not claustrophobic, can fight interior structure fires, and understand hazardous materials terminology. Students are required to have NFPA full protective clothing, including SCBA which meets the NFPA 1981 standard. Students who withdraw from the course for any reason must complete another course in its entirety to receive certification. **Students should bring a rescue helmet and gloves to class.**

# INSTRUCTOR CHIEF NICK RAGAN

# SPECIAL/INDUSTRIAL BUREAU

## VEHICLE EXTRICATION & RESCUE TECHNICIAN

### (AWARENESS, OPERATIONS AND TECHNICIAN LEVELS)

Course Number: SC 545 This Course Is Accredited By PROBOARD.  
Course Hours: 48  
EMS CEU Hours: 12 Approved for EMS CEU by the Mississippi Bureau of Emergency Medical Services.  
Maximum Enrollment: 24 Minimum Enrollment: 10  
Course Fee: \$400 - Group A \$540 - Group B  
Dates of Delivery: April 18-22, 2022 October 3-7, 2022  
Prerequisites: NFPA 472 Hazardous Materials Operations & NFPA 1006 Confined Space Rescue Technician

Course Description: The Vehicle Extrication & Rescue Technician program utilizes the textbook: *Vehicle Extrication Levels 1 & 2: Principles and Practice*. The text consists of thirteen chapters and addresses fundamental skills through heavier commercial vehicles. The course is designed with 25% lecture and 75% hands-on training. Topics covered include conventional hydraulic extrication, buttress stabilization systems, hand tool extrication techniques, stabilizing, lifting, and medical considerations. Students must achieve a 70% or greater on exams at Awareness, Operations and Technician Level, as well as practical skills testing in order to receive a certificate.

Note: Required PPE: NFPA compliant full turnout gear or extrication suit (fire retardant jumpsuit), hard hat or firefighting helmet, work gloves, steel toed boots, and OSHA approved safety glasses.

**Students will not be allowed to participate in training without all safety equipment.**

## ADVANCED ROPE RESCUE WORKSHOP: WILDERNESS

Course Number SC 547  
Course Hours: 24  
Maximum Enrollment: 12  
Course Fee: \$60  
Delivery Date TBD  
Prerequisite: Rope Rescue Level 2 (2010 or later MSFA)  
Skills Entrance Test Required

Course Description: This advanced rescue workshop will take students out of their customary urban / industrial setting and to the pristine cliffs of northeast Mississippi. The course will build on skills acquired in NFPA Rope Rescue Level 2(Technician) and apply them to the wilderness environment. Topics include artificial anchors, artificial high directional (AHDs), litter tending, horizontal rope systems, and an emphasis on individual movement on rope. The course will take place Friday morning until Sunday lunch (24 hours total). The enrollment is limited to 12 attendees. Students will be required to perform a skills demonstration of ascending with change-overs, knots, and MAs, prior to participating in the workshop.

NOTE: Prerequisites and Entry Skills Test Required  
Students are responsible for meals and lodging. Lunches will be backpacked into the field. Camping, RV access, and cabins are available through Tishomingo State Park.

Other: Students are encouraged to bring their own harness, ascending system, descender, and other rescue kit they might use in the field. All gear is subject to inspection and should be of safe condition and age. Short pants will not be allowed, and hard sole boots are mandatory during field activities. Students should review and bring information acquired during Rope Rescue 2 to class. **Students should bring a rescue helmet and gloves to class.**

# INSTRUCTOR CHIEF NICK RAGAN

# SPECIAL/INDUSTRIAL BUREAU

Ascending:	Ascend 30' on a conventional sit-stand / rope access ascending system. Demonstrate the ability to down-climb 10'. Change over to descent on an approved auto-locking descender. Rappel to the ground. Complete in under 12 minutes. Two attempts allowed.
Tie:	Figure Eight on a Bite, Double Loop Figure Eight, Clove Hitch Bowline, Prusik Hitch, Munter Hitch w/Tie-Off, Square Knot Double Fisherman's Knot, Water Knot in Webbing
Tie/Anchor:	Tensionless Anchor, Wrap-3, Pull 2 Anchor
Rig/Operate:	3:1 Z-Rig Mechanical Advantage System

## HAZARDOUS MATERIALS AWARENESS AND OPERATIONS: ONLINE

Course Number:	1072: OL This Course Is Accredited by IFSAC and PROBOARD
Course Hours:	40
EMS CEU Hours:	40      Approved for EMS CEU by the Mississippi Bureau of Emergency Medical Services.
Maximum Enrollment:	35
Course Fee:	\$160 - Group A      \$320 - Group B
Dates of Delivery:	Online Monthly
Prerequisite:	None

## HAZARDOUS MATERIALS TECHNICIAN - I

Course Number:	SC 472-TECH1 This Course Is Accredited by IFSAC and PROBOARD.
Course Hours:	80
EMS CEU Hours:	32      Approved for EMS CEU by the Mississippi Bureau of Emergency Medical Services.
Maximum Enrollment:	20      Minimum Enrollment: 10
Course Fee:	\$770 - Group A      \$1,040 - Group B
Dates of Delivery:	July 11-21, 2022      December 5-15, 2022
Prerequisites:	NFPA 1072 Hazardous Materials Operations (or Equivalent 472)

Course Description:	This course will build upon the information establish in Hazardous Materials Awareness and Operation. The text consists of chapters including Review of Haz Mat Competencies, Scene Management, Chemical and Physical Properties, Chemistry and Hazards, Exposure Assessment and Toxicology, Hazard and Response Information, Detection and Monitoring, PPE, Decontamination, Container Identification, Product Control and Demobilization and Termination. Students must achieve a minimum of 70% on the cognitive portion and skills to qualify for the certification final.
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Note:	<p>The course fee may be covered by a grant from the Mississippi Emergency Management Agency. Call for information.</p> <p>Due to the content of the text used in this course, it is recommended that students acquire and start reading the student manual prior to attending this class.</p> <p>Two (2) field deliveries will be offered in Spring 2022. One in North, MS another in South, MS</p> <p>Updates will be provided via Website and/or Social Media</p>
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# INSTRUCTOR CHIEF NICK RAGAN

# SPECIAL/INDUSTRIAL BUREAU

## HAZARDOUS MATERIALS TECHNICIAN - II

Course Number: SC 472-T2  
Course Hours: 45  
EMS CEU Hours: 32      Approved for EMS CEU by the Mississippi Bureau of Emergency Medical Services.

Maximum Enrollment: 20      Minimum Enrollment: 10

Course Fee: \$470 - Group A      \$630 - Group B  
Dates of Delivery: January 10-13      August 29-September 1, 2022  
Prerequisite: Hazardous Materials Technician-I

Course Description: This course builds upon the information established in the Haz Mat Tech-I course. Students should bring information acquired during Tech-I in order to build upon it. Testing will also be required just as in the Tech-I course, with a comprehensive review of past nomenclature and information. Review of information will be brief in order to maintain a level of 50% hands-on activity and 50% lecture. Further information will be provided in areas such as monitoring devices, railroad tank car and highway tanker valving arrangements and nomenclature. A variety of scenarios will be demonstrated, using small teams, to reinforce subject presented in the classroom.

Note: **The course fee may be covered by a grant from the Mississippi Emergency Management Agency. Call for information.**

Due to the content of the text used in this course, it is recommended that students acquire and start reading the student manual prior to attending this class.

## INCIDENT MANAGEMENT OF HAZARDOUS MATERIALS

Course Number: SC 472-IC  
Course Hours: 45  
EMS CEU Hours: 16  
Maximum Enrollment: 10  
Course Fee: \$260 - Group A      \$630 - Group B  
Dates of Delivery: August 29-September 1, 2022  
Prerequisite: Hazardous Materials Technician Level I or equivalent  
ICS 100,200,700, 300 or equivalent

Course Description: The primary focus for this course is to emphasize the importance of command and control at incidents involving Hazardous materials. This course will require participants to manage and lead incidents involving actual hazardous material technicians mitigating emergencies. Participants will be required to complete all necessary NIMS/ICS documents, produce Incident Action Plans (IAP's), develop specific Site Safety Plans, conduct safety briefing, lead in criminal investigations as well as any forms and documents related to criminal or terrorist investigations, incident briefs, and other task associated with actual hands-on scenario-based activities. This course will be lecture, and interactive with students in hand on scenarios. The in-depth planning and decision-making processes involved in this course will prepare the participants to managing and documenting responses to real world emergencies involving hazardous materials.

# INSTRUCTOR CHIEF NICK RAGAN

# SPECIAL/INDUSTRIAL BUREAU

Note:

The course fee may be covered by a grant from the Mississippi Emergency Management Agency. Call for information.

Due to the content of this course, it is recommended that students review materials that were covered in the hazardous materials technician course and be familiar with the types of containers used in surface transportation and the concepts used to mitigate them. This class is only 10 % classroom and the remainder of the class requires individuals to serve in actual leadership positions to manage technicians responding to scenario-based emergencies.

## HAZARDOUS MATERIALS TECHNICIAN FIELD DELIVERY

This program is broken into six modules. Modules 1-6 are one (1) day, eight (8) hour courses designed to provide technician level hazardous materials training: {A} Annual Refresher for Haz Mat Technicians level, and {B} a field delivery certification path to reach Haz Mat Technician - I. These courses can be provided off-campus upon written request and availability of staffing.

Course Hours: All Modules are 8 Hours Each

Maximum Enrollment: 20 Minimum Enrollment: 10

Course Fee: The course fee may be covered by the use of federal grant funding. Call for information.  
NOTE: Available for Group A only, statewide upon written request and mutually agreed upon dates, and dependent on federal funding and available instructional staff. Contact the Admissions Office for details.

\* Approved for EMS CEU by the Mississippi Bureau of Emergency Medical Services.

MODULE 1: Sources of Assistance/Haz Mat ICS/Respirators and SCBA/Chemical Terms and Definitions (Classroom/Field)  
Course Number: 472-4AR1 EMS CEU Hours: 8 Prerequisite: Documented Haz Mat Operation Level training  
Course Description: Module will identify sources of chemical information and activities designed to retrieve useful chemical information. This module will also include the use of SCBA and supplied air under stressed and non-stressed conditions. You will review the Incident Command System in emergency situations and basic chemical terms and definitions.

MODULE 2: Toxicology/Monitoring Devices/Weapons of Mass Destruction (Classroom/Field)  
Course Number: 472-4AR2 EMS EMS CEU Hours: 8 Prerequisite: Module 1  
Course Description: Module will review toxicology terms and definitions along with monitoring devices and monitoring operations. The module will cover the make-up and operation of different monitors. You will review weapons of mass destruction nomenclature.

MODULE 3: Decontamination/Chemical Protective Clothing/Spill and Leak Control (Classroom/Field)  
Course Number: 472-4AR3 EMS CEU Hours: 4 Prerequisite: Module 2  
Course Description: Module will cover the basic fundamentals of building a chemical reduction corridor and the proper techniques of using a "decon" line. It will also address the components, types and features of chemical protective clothing, and spill and leak control techniques.

MODULE 4: Chlorine/Entry Requirements (Classroom/Field)  
Course Number: 472-4AR4 EMS CEU Hours: 4 Prerequisite: Module 3  
Course Description: Module will address the chemical hazards of chlorine; containers used to transport and store chlorine, and confinement techniques useful in emergencies. The use of the "A", "B", and "C" kits takes place outside. This will also cover the proper ways of dealing with the media during emergency situations.

## INSTRUCTOR CHIEF NICK RAGAN

# SPECIAL/INDUSTRIAL BUREAU

MODULE 5: Non-Bulk Containers/Highway Carriers/Rail Cars (Classroom/Field)  
Course Number: 472-4AR5 EMS CEU Hours: 4 Prerequisite: Module 4  
Course Description: Module covers HAZMAT container identification, features and nomenclature. Small containers and transportation modes are covered in this portion. Overpacking and chlorine kit application are conducted outside.

MODULE 6: Responding to Hazardous Materials Incidents (Classroom/Field)  
Course Number: 472-4AR6 472-MTECH EMS CEU Hours: 4 Prerequisite: Module 5  
Course Description: Module culminates the training path of persons participating in the field delivery of the Hazardous Materials Technician program. During this session, participants will function as a response team member to mitigate numerous HAZMAT incidents varying in size and complexity. All members must demonstrate competency in skills previously practiced. The module will require students to travel to the Academy for Friday-Saturday delivery, or other days set up by host and Academy coordinators.

## NFA CHEMISTRY OF HAZARDOUS MATERIALS: FIRE CHEM I

Course Number SC 540-FCI  
Course Hours: 80  
EMS CEU Hours: 36 Approved for EMS CEU by the Mississippi Bureau of Emergency Medical Services.  
Maximum Enrollment: 20  
Course Fee: \$535 - Group A \$805 - Group B  
Dates of Delivery: June 13-23, 2022  
Prerequisite: **Complete pre-course studies: Foundational Concepts of Chemistry (Q228), NFA on-line course.**

Course Description: This course provides the basic knowledge required to evaluate the potential hazards and behaviors of materials considered to be hazardous for one or a combination of reasons. Directed at the underlying reasons for the chemical behavior of hazardous materials, the course is designed to improve decision-making, safety in operations at incidents, and the possible complex handling problems of materials when they are released from their containers. The course is chemistry oriented, but students without any chemistry background can complete the course of instruction. Students attending this course should be emergency response personnel who have the responsibility for analysis, management, and/or tactical response to a hazardous materials incident, or fire prevention, investigation or inspection personnel who need some knowledge of the hazardous properties of substances.

Note: **The course fee may be covered by a grant from the Mississippi Emergency Management Agency. Call for information.**

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